

## C. Benjamin Newman, M.D.

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CONTACT INFORMATION	Division of Neurosurgery University of California, San Diego Medical Center 200 West Arbor Drive, Mailcode 8893 San Diego, California 92103	<i>t</i> +1 619.543.5540 <i>f</i> +1 619.543.2769 cbnewman@gmail.com <a href="http://neurosurgery.ucsd.edu/profiles/newman">http://neurosurgery.ucsd.edu/profiles/newman</a>
INTERESTS	General neurosurgery in an academic setting, with an emphasis on endovascular interventions, modeling of cerebrovascular anatomy and emerging technology development.	
EDUCATION	<b>University of California, San Diego</b> <i>Division of Neurosurgery</i> Resident in Neurosurgery, anticipated completion June 2012	San Diego, California June 2006 - Present
	<b>Barrow Neurological Institute</b> <i>Department of Neurosurgery</i> Fellowship in Endovascular Neurosurgery	Phoenix, Arizona July 2009-June 2010
	<b>Oregon Health &amp; Science University</b> <i>Department of Neurosurgery</i> Internship in Neurosurgery	Portland, Oregon July 2005 - June 2006
	<b>Indiana University School of Medicine</b> M.D. June, 2005	Indianapolis, Indiana August 2001 - June 2005
	<b>University of Florida</b> <i>Department of Liberal Arts &amp; Sciences</i> B.S. Computer Science, May 1999	Gainesville, Florida August 1994 - May 1999
HONORS AND AWARDS	2008-2009 COUNCIL OF STATE NEUROLOGICAL SOCIETIES SOCIOECONOMIC FELLOW  2002 INDIANA UNIVERSITY SCHOOL OF MEDICINE SUMMER RESEARCH SCHOLARSHIP Effects of sex hormones on neuroplasticity of the adult rat somatosensory cortex  1999 UNIVERSITY OF FLORIDA Graduated with High Honors, Golden Key Honor Society Honors thesis: Multimodal Medical Image Registration	
JOURNAL PUBLICATIONS	Albuquerque FC, Gonzalez LF, Hu YC, <b>Newman CB</b> , McDougall CG. Transcirculation Endovascular Treatment Of Complex Cerebral Aneurysms: Technical Considerations And Preliminary Results. Accepted Aug 2010 <i>Neurosurgery</i>  Baird LC, <b>Newman CB</b> , Svinth JR, Volk H, Conklin J, Levy ML. Mortality resulting from Head Injury in Professional Boxing. <i>Neurosurgery</i> 2010 Aug;67(2):E519-20.  <b>Newman CB</b> , Schusse C, Hu YC, McDougall CG, Albuquerque FC. Acute Transient Cortical Blindness Due to Seizure Following Cerebral Angiography. <i>World Neurosurgery</i> . Accepted July 2010  Keshavarzi S, Meltzer H, Cohen SR, Breithaupt A, Ben-Haim S, <b>Newman CB</b> , Levy ML. The Risk of Growing Skull Fractures in Craniofacial Patients. <i>Pediatr Neurosurg</i> . Accepted June 2010.  Hu YC, <b>Newman CB</b> , Bristol R, McDougall CG, Albuquerque FC. Percutaneous transluminal	

angioplasty in a patient with vasospasm secondary to coccidioidal meningitis: case report and review of the literature. *J Neurointerventional Surg*. Accepted May 2010

Hu YC, **Newman CB**, Porter RW, Albuquerque FC. Preoperative transarterial onyx embolization of a sacral chordoma: case report and review of the literature. *J Neurointerventional Surg*. Accepted May 2010

Nath SK, Lawson JD, Wang JZ, Simpson DR, **Newman CB**, Alskne JF, Mundt AJ, Murphy KT. Optically-guided frameless linac-based radiosurgery for brain metastases: clinical experience. *J Neurooncol*. 2010 Mar;97(1):67-72. Epub 2009 Aug 23.

**Newman CB**, Keshavarzi S, Aryan HE. En Bloc Sacrectomy and Reconstruction: Technique Modification for Pelvic Fixation. *Surg Neurol*. 2009 Dec;72(6):752-6; E Pub 2009 Aug 7.

Keshavarzi S, Park MS, Aryan HE, **Newman CB**, Amene CS, Gonda D, Taylor W. Minimally invasive thoracic corpectomy and anterior fusion in a patient with metastatic disease: case report and review of the literature. *Minim Invasive Neurosurg*. 2009 Jun;52(3):141-3. Epub 2009 Jul 31.

Aryan HE, **Newman CB**, Lu DC, Hu SS, Tay BK, Bradford DS, Puttlitz CM, Ames CP. Relaxation of forces needed to distract cervical vertebrae after discectomy: a biomechanical study. *J Spin Disord Tech*. 2009 Apr;22(2):100-4.

Keshavarzi S, Meltzer H, Ben-Haim S, **Newman CB**, Lawson J, Levy M, Murphy K. Initial Clinical Experience with Frameless Optically-Guided Stereotactic Radiosurgery/Radiotherapy in Pediatric Patients. *Child's Nervous System*. 2009 Jul;25(7):837-44. Epub 2009 Mar 27.

**Newman CB**, Pakbaz RS, Nguyen AD, Kerber CW. Endovascular treatment of extensive cerebral sinus thrombosis. *J Neurosurg*. 2009 Mar; 110(3):442-5.

Aryan HE, **Newman CB**, Gold JJ, Acosta FL, Coover C, Ames CP. Percutaneous axial lumbar interbody fusion (AxiaLIF) of the L5-S1 Segment: initial clinical and radiographic experience. *Minim Invasive Neurosurg*. 2008 Aug;51(4):225-30.

Aryan HE, **Newman CB**, Nottmeier EW, Acosta FL Jr, Wang VY, Ames CP. Stabilization of the atlantoaxial complex via C-1 lateral mass and C-2 pedicle screw fixation in a multicenter clinical experience in 102 patients: modification of the Harms and Goel techniques. *J Neurosurg Spine*. 2008 Mar;8(3):222-9.

PUBLICATIONS IN  
PROCESS

Hofstetter CC, Chou D, **Newman CB**, Aryan HE, Girardi F, Härtl R. Posterior approach for thoracolumbar corpectomies with expandable cage placement and circumferential arthrodesis. A multicenter case series of 67 patients. In Revision. *J Neurosurg Spine*

Albuquerque FC, Dashti SR, Hu YC, **Newman CB**, ReKate H, Teleb M, McDougall CG. Intracranial Venous Sinus Stenting for Benign Intracranial Hypertension: Clinical Indications, Technique and Preliminary Results. In Revision *J Neurosurg*

Gonda D, **Newman CB**, U HS. Epstein-Barr Virus Related Smooth Muscle Tumor Masquerading as an Acoustic Neuroma. Case Report. Submitted *Neuropathology*

Albuquerque FC, Dashti SR, Hu YC, **Newman CB**, ReKate H, Teleb M, McDougall CG. Intracranial Venous Sinus Stenting for Benign Intracranial Hypertension: Clinical Indications, Technique and Preliminary Results. In Revision *J Neurosurg*

Hu YC, **Newman CB**, Dashti SR, Albuquerque FC, McDougall CG. Dural Fistula: Classification

and Management. Submitted *J Neurointerventional Surg*

Hu YC, Albuquerque FC, **Newman CB**, McDougall CG. Post-mortem Histological Analysis of Pipeline Embolization Device for the Treatment of Intracranial Aneurysms. In Process

**Newman CB**, Hu YC, Albuquerque FC, McDougall CG. Balloon-assisted Onyx embolization of High-Flow Single-Hole Intracranial Arteriovenous Fistulae: Technical Note. In Process.

**Newman CB**, Hu YC, Wallace RW, Albuquerque FC, McDougall CG, Spetzler RF. Incidence of Intracranial Aneurysms with Persistence Fetal Circulation. In process.

**Newman CB**, Hu YC, Albuquerque FC, McDougall CG. Preoperative Transarterial Embolization of Juvenile Angiofibromas: BNI Experience. In process.

**Newman CB**, Schim E, Baird L, Keshavarzi S, Levy ML. Short-term Use of Levetiracetam Following Traumatic Brain Injury in Children. In Process

#### BOOKS

Rahul Jandial, M.D., Ph.D, **Charles B. Newman, M.D.**, and Samuel A Hughes, M.D., Ph.D.. 100 Questions and Answers about Brain Injury. Sudbury, MA: Jones and Bartlett, 2008.

#### BOOK CHAPTERS

**C. Benjamin Newman, M.D.**, Yin C. Hu, M.D., Cameron G. McDougall, M.D., Felipe C. Albuquerque, M.D. "Management of Vertebral Artery Dissections and Vascular Insufficiency," in Drs. Dickman, Spetzler, Sonntag, and Bambakidis eds. *Surgery of the Craniovertebral Junction*. In Press.

**C. Benjamin Newman, M.D.**, Yin C. Hu, M.D., Cameron G. McDougall, M.D., Felipe C. Albuquerque, M.D. "Endovascular Therapies for Cerebral Revascularization," in Saleem I. Abdulrauf, M.D. ed., *Cerebral Revascularization: Techniques in Extracranial-to-Intracranial Bypass Surgery*. In Press.

**C. Benjamin Newman, M.D.**, Yin C. Hu, M.D., Cameron G. McDougall, M.D., Felipe C. Albuquerque, M.D. "Pre-operative embolization of CNS tumors" in Henry Schmidek, M.D. and David Roberts, M.D. eds., *Schmidek and Sweet's Operative Neurosurgical Techniques, ed 6*. In Press

Yin. C. Hu, M.D., **C. Benjamin Newman, M.D.**, Cameron G. McDougall, M.D., Felipe C. Albuquerque, M.D. "Cranial Arteriovenous Malformation Embolization" in Drs. Batjer, Bendok, Naidech, and Walker, eds. *Hemorrhagic and Ischemic Stroke: Surgical, Interventional, Imaging, and Medical Approaches*. In Press

Dawn Waters, M.D., **Ben Newman, M.D.** and Michael Levy, M.D., Ph.D., "Stem Cell Origin of Brain Tumors," in Rahul Jandial, M.D., Ph.D. ed., *Frontiers in Brain Repair*. Austin, Texas: Landes Bioscience, 2009.

#### CONFERENCE POSTERS

**Newman CB**, Hu YC, McDougall CG, Albuquerque FC. Transcirculation Endovascular Treatment of Complex Cerebral Aneurysms: Technical Considerations and Preliminary Results. 2010 Society for Neurointerventional Surgery 7th Annual Meeting, Carlsbad, California.

**Newman CB**, Hu YC, McDougall CG, Albuquerque FC. Y-stent assisted Coil Embolization of Unruptured Basilar Tip Aneurysms: Report of 11 cases. 2010 Society for Neurointerventional Surgery 7th Annual Meeting, Carlsbad, California.

Gonda DD, **Newman CB**, Masoumi H, Park MS, Ciacci JD. Epstein-Barr Virus Related Smooth Muscle Tumor Masquerading as an Acoustic Neuroma. 2009 Joint Meeting of the Society for Neuro-

Oncology and the AANS/CNS Section on Tumors, New Orleans, Louisiana.

Short-term Use of Levetiracetam Following Traumatic Brain Injury in Children. 2008 Congress of Neurological Surgeons Annual Meeting, Orlando, Florida.

C1 lateral mass and C2 pedicle screw fixation for stabilization of the atlantoaxial complex: modification of the Harms technique and multicenter experience. 2007 Congress of Neurological Surgeons Annual Meeting, San Diego, California.

Percutaneous paracoccygeal axial lumbar interbody fusion: description of technique, initial clinical experience and radiographic outcomes. 2007 Congress of Neurological Surgeons Annual Meeting. San Diego, California.

CONFERENCE  
PRESENTATIONS

Percutaneous Paracoccygeal Axial Lumbar Interbody Fusion: Description Of Technique, Initial Clinical Experience, And Radiographic Outcomes. Minimally Invasive Neurosurgery of the Spine 2007. La Jolla, California 11/2007

ACADEMIC  
EXPERIENCE

**University of California, San Diego School of Medicine** San Diego, California  
*Discussion Group Leader* Spring, 2009

Led weekly group discussions and clinical problem solving sessions for medical students enrolled in Basic Neurology at the UCSD medical school.

**University of Florida** Gainesville, Florida  
*Associate Instructor* May 1999 - August 1999

Associate Instructor for CDA 3101 *Introduction to Computer Organization*. Proctored & graded written examinations, held office hours, administered oral examinations, taught lab sections

LEADERSHIP  
EXPERIENCE

**Indiana State Medical Association** Indianapolis, Indiana  
ISMA Board of Directors, Medical Student Trustee 2003-2005

**American Medical Association Medical Student Section** Indianapolis, Indiana  
Alternate delegate to bi-annual national meeting 2002-2003

**American Medical Association Medical Student Section** Bloomington, Indiana  
Delegate to bi-annual national meeting 2001-2002

**American Medical Association Medical Student Section** Bloomington, Indiana  
Regional Campus Representative to Indiana State Medical Student Section chapter 2001-2003

PROFESSIONAL  
EXPERIENCE

**UCSD Division of Neurosurgery** San Diego, California  
*Website developer and administrator* June 2007 - Present  
Designed, implemented and maintained Division Internet site using the open-source Drupal content management system

**Velara Software** Gainesville, Florida  
*Vice-President of Sales, Senior Software Engineer* September 1999 - June 2001  
Responsibilities included software design, consulting in high-level architecture planning sessions, coding, making sales calls, participating in securing seed round venture capital and angel investment.

**University of Florida Brain Institute** Gainesville, Florida  
*Research Assistant* August 1999 - May 2000

Project: Automated MRI-based detection and segmentation of the human hippocampus

**University of Florida**

Gainesville, Florida

**Center for Database Research & Development**

*Research Assistant*

June 1999 - January 2000

Implementation and testing of highly scalable, asynchronous database triggering application

COMPUTER SKILLS Languages: C\C++, Java, Visual Basic, Ruby, Perl, basic Unix shell scripting, L<sup>A</sup>T<sub>E</sub>X  
Applications: Matlab, Microsoft Access, Microsoft Excel, Adobe Photoshop, Adobe Illustrator  
Operating Systems: Mac OS X, Unix/Linux, Windows  
Content management: Drupal, Wordpress, Dreamweaver

PERSONAL Basketball, CrossFit, Golf, Hiking, Skiing/Snowboarding, Travel, Computer Music Production, Live Music Performance, Graphic Design, Photography, Woodworking, Software Development, Computer Networking, Portable Computing  
French (ILR Level 2), Spanish (ILR Level 1)